Appendix B

Army Airspace Command and Control Tasks

The commander must develop and implement the Army airspace command and control (A2C2) system for his assigned area of responsibility. To assist him in this effort, the commander utilizes his staff. This appendix discusses the basic tasks the staff must complete and how they will manage A2C2 information.

BASIC STAFF TASKS

B-1. The basic staff tasks to be accomplished are the same for A2C2 as for any other function. These tasks are—

- Facilitate and monitor the accomplishment of command decisions.
- Provide timely and accurate information to the commander and subordinate units.
- Anticipate requirements and provide estimates of the situation.
- Determine various courses of action and recommend one course of action that will best accomplish the mission.
- Prepare plans and orders.
- Integrate and implement airspace control measures directed by the airspace control authority.

B-2. This appendix lists basic A2C2 staff tasks and identifies the element or cell responsible for each task. The tasks in Table B-1 are divided into subtasks. The A2C2 staff section chief (echelon-dependent) must ensure that the appropriate staff completes the tasks or provides the information required.

Table B-1. Staff Tasks for A2C2

		BCD	CORPS	DIV	BDE	BN				
	Task 1. Identify and resolve airspace conflicts.									
a. Cu	rrent Operations.									
(1)	Monitor operations of airspace users.		X	Χ	Χ	Χ				
(2)	Monitor intelligence reports.	X	X	Χ	Χ	Χ				
(3)	Disseminate immediate airspace requests (CAS, aeromedical evacuation, deep attacks, and UAV).	Х	Χ	Х	Х	Х				
(4)	Inform airspace users at each echelon of any communication loss affecting any airspace user.		Χ	Х	Х	Х				

CONTENTS										
Basic Staff TasksB-1 A2C2 Information ManagementB-5 Battlefield Coordination DetachmentB-5 Corps A2C2 ElementB-7	Brigade A2C2 ElementB-14 Battalion A2C2 ElementB-18									

Table B-1. Staff Tasks for A2C2 (continued)

		BCD	CORPS	DIV	BDE	BN
	Task 1. Identify and resolve airspace				DUE	DIN
(E)		Commicis	(continued	ı).		
(5)	Identify and correlate situations affecting airspace use for unscheduled events.		X	Χ	Χ	Х
(6)	Analyze airspace use to determine and resolve					
(0)	conflicts.	Χ	X	Χ	Χ	
(7)	Recommend shifting or ending fires when affecting					
(1)	high priority aviation missions.		X	Χ	Χ	Х
(8)	Disseminate changes of control or restriction					
(0)	measures, weapons control status, and NBC	Х	Χ	Х	Χ	Х
	information that affect airspace users.	^	Λ.	^	^	,
(9)	Review immediate air requests (Army) for conflicts					
(0)	with current operations.		X	X	Χ	Х
b. Fu	ture Operations (more fully developed under Task 4).					
	alyze the OPLANs and OPORDs for possible conflicts					
	ong flight routes, control measures, artillery/ADA					
	ations, and flight obstructions.					
	Determine the impact.	Χ	Χ	Χ	Χ	Χ
	Develop and recommend alternatives.	Χ	Х	Χ	Χ	Χ
	Task 2. Develop and maintain	A2C2 ove	erlay.			
a. Air	Defense Artillery.					
	Unit locations.	Χ	Χ	Χ	Χ	Χ
(2)	Weapons control status.	Χ	Х	Χ	Χ	Х
	Weapon system coverage for HIMAD primary and	V	V	V	V	
()	short-range air defense, as required.	Х	Х	Х	Х	
b. Fir	e Support.					
	Coordinating measures.	Χ	Χ	Χ	Χ	Χ
	Planned targets.	Χ	Х	Χ	Χ	Х
	Ongoing fires.	Χ	Χ	Χ	Χ	Χ
	Firing battery locations.	Χ	X	Χ	Χ	Χ
c. Av	iation.					
(1)	Battle positions (current and preplanned).	Χ	X	Χ	Χ	Χ
(2)	Assembly areas and unit locations.	Χ	Χ	Χ	Χ	Χ
(3)	Forward arming and refueling points.	Χ	X	Χ	Χ	
(4)	Air routes.	Χ	X	Χ	Χ	
d. Air	Traffic Service.					
(1)	Airspace control measures and restrictions.	Χ	X	Χ	Χ	
	Friendly aircraft locations.	Χ	X	Χ	Χ	Χ
(3)	Instrumented landing sites.	Χ	X	Χ		
	Navigational aids.		Χ	Χ		
	elligence.					
	Contaminated areas.	Χ	Χ	Χ	Χ	Χ
	Massed enemy aircraft locations.		Χ	Χ	Χ	
(3)	Areas affected by friendly electronic	Х	Х	Х	X	Х
	countermeasures.		^			
	Flight obstructions.					
(5)	Special electronic mission aircraft (current and	Х	Х	Х	Х	
	preplanned).					
(6)	UAV flight routes and launch and recovery sites.	X	X	X	X	Χ
	Task 3. Request, maintain, and disseminate A	2C2 mea	sures or re	striction	s.	
	quest.					
	Joint measures or restrictions.	X	X	Х		
(2)	Army-specific measures (only affects Army users		Χ	Х	Χ	Χ
	below coordinating altitude).		- `			,,

Table B-1. Staff Tasks for A2C2 (continued)

Task 3. Request, maintain, and disseminate A2C2 measures or restrictions (continued). b. Maintain. (1) Joint measures or restrictions.			BCD	CORPS	DIV	BDE	BN
(1) Joint measures or restrictions. (2) Army-specific measures. (3) Army-specific measures (overlay if possible). (4) Army-specific measures (overlay if possible). (5) Army-specific measures (overlay if possible). (6) Determine the Mission. (7) Receive higher headquarters' operation plan. (8) Task organization. (9) Task organization. (1) Receive higher headquarters' operation plan. (1) Receive higher headquarters' operation plan. (1) Receive higher headquarters' operation plan. (1) Task organization. (2) Army-specific measures (overlay if possible). (3) Task organization. (4) AVEC 20 ARMS (include information from the plan. (5) Mission statement. (6) AVEC 22 annex (include information from ATO with special instructions or ACO). Task 4. Develop and coordinate AZC2 annex to operation plan. a. Identify the following: (1) Area for which the commander is responsible, to include: (a) Vertical limits. (b) Left and right limits. (c) Front and rear limits. (d) AVEC 22 annex to operation plan. (e) Profit of the airspace: (a) Army aviation. (b) Left and right limits. (c) Front and rear limits. (d) AVEC 23 AVEC 24 AVE		Task 3. Request, maintain, and disseminate A2C2 m	easures	or restriction	ons (cor	tinued).	
(2) Army-specific measures. C. Disseminate. (1) Joint measures or restrictions. (2) Army-specific measures (overlay if possible). (3) Extract required information from the plan. (4) Task organization. (5) Mission statement. (6) Concept of operation. (7) Mission statement. (8) AZC2 annex (include information from ATO with special instructions or ACO). Task 4. Develop and coordinate AZC2 annex to operation plan. a. Identify the following: (7) Area for which the commander is responsible, to include: (8) Vertical limits. (9) Left and right limits. (10) Left and right limits. (11) Left and right limits. (12) The degree of authority which has been vested in the ground commander. (13) The users of the airspace: (14) Army aviation. (15) Other services/multinational forces. (16) Air respectives/multinational forces. (17) Left respectives/multinational forces. (18) Army aviation. (19) Area for the uses of the airspace: (19) Air defense. (10) Air defense. (10) Air defense. (11) Air defense. (12) A Combat. (13) The users of the airspace: (14) Air defense. (15) Combat support. (16) Combat support. (17) Area for the uses of the airspace: (18) Combat support. (19) Area for the uses of the airspace: (20) Combat support. (31) The users of the commander or oncept. (4) Requirements for the uses of the airspace: (5) A2C2 control measures imposed by higher headquarters. (6) Combat support. (7) Area for the uses of the airspace: (8) ACC2 control measures imposed by higher headquarters. (9) Combat support. (10) Area for the uses of the command post, determine: (11) A2C2 priorities. (12) Combat support missions. (13) Ax X X X X X X X X X X X X X X X X X X						•	
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possible. Identify conflicts. (2) For each course of action, determine the	, ,			X	Χ	Χ	Χ
(2) For each course of action, determine the							
	(2)						
requirements to resolve conflict (control measures),	(-)						
the difficulty of solving conflict, and how the X X X X X				X	Х	Х	Х
requirements to solve conflict affect the concept of				- •	- •	- •	- •
the operations.							

Table B-1. Staff Tasks for A2C2 (continued)

		BCD	CORPS	DIV	BDE	BN
	Task 4. Develop and coordinate A2C2 annex					
(3)	Recommend one specific course of action.	•	X	Х	X	Х
	Receive commander's decision and guidance for		Х	Х	Х	Х
	implementation.		^	^	^	^
	velop A2C2 Annex (see FM 5-0 for format). Include					
	following as a minimum:					
(1)	Delineate the airspace subsector:					
	(a) Upper limits.		X	X		
	(b) Left and right limits.		X	X		
(0)	(c) Front and rear limits.		X	X		
(2)	Describe authority to be exercised by each echelon					
	concerning:		V	V		
	(a) Army users.		X X	X		
	(b) Other service users.	Х	X	X	Х	Х
	(c) Establishment of control measures.(d) Positive and procedural control requirements.	^	X	X	X	X
(3)	State the commander's airspace priorities.		X	x	X	X
	State the A2C2 mission.		X	X	X	X
	Explain the concept of operations and scheme of					
(3)	maneuver, to include A2C2 overlay.		X	Х	X	Х
(6)	Write subunit paragraphs for each airspace user (fire					
(0)	support, other services and multinational forces,					
	aviation, AD, and ATS). Discuss for each user:					
	(a) Type of control required (positive or procedural,		.,	.,	.,	
	when, and where).		X	X	Х	Χ
	(b) A2C2 responsibilities not covered in SOP, such					
	as peculiar information requirements, changes to					
	responsibility for managing subsectors, weapon		V	V	V	V
	control orders and autonomous operation		Х	X	Х	Х
	procedures (if changed), and times of operations					
	and restrictions.					
(7)	Delineate information affecting more than two users:					
	(a) All procedural A2C2 control measures and					
	restrictions (include fire support); information not		X	Χ	Χ	Χ
	included in overlays.					
	(b) Flight rules.		X	Χ		
	(c) Airspace control order issuing times.		X	X	X	
	(d) High-use areas.		X	Х	X	
	(e) Friendly electronic warfare operations which		X	Χ	Χ	Х
	affect airspace users.					
	(f) FARPs (active and preplanned).		X	X	X	
	(g) Airfield locations and /operations.		Χ	X	Χ	
	(h) NAVAIDs locations (active and preplanned time		X	Χ	Χ	
/ Q\	of operation). Address service support and command and signal					
(0)	requirements.		X	Χ	Χ	Χ
e Ge	nerate Airspace Control Measure Requests.					
	port the annex and forward for approval (theater		Χ	X	Х	Х
	uirements and means to accomplish this may vary).		χ	^	^	^
	raffic service CAS-close air support		NAVAID-navi	national a	id	
BDE-brig	and the second s		NBC-nuclear,			nical
BN-batta	ion FARP–forward arming and refueling	point	,			
CORPS a	Iso applies to echelons above corps.					
*In those	commands where a BCD does not exist due to command and	control a	rrangements ar	nd organiz	ation, the	
unctions	performed by the BCD are performed by the appropriate staff	element.				

A2C2 INFORMATION MANAGEMENT

B-3. This section outlines the information required to operate an A2C2 system. The tables depict the primary players at the various headquarters organizations—ranging from the battlefield coordination detachment (BCD) to the maneuver battalion. The information required, the source of the information, the element of the staff using the information, and the expected uses of the information are shown. The information shown is not all-inclusive, nor is all required in every scenario; it is situation dependent.

BATTLEFIELD COORDINATION DETACHMENT

B-4. The A2C2 element representing the joint forces land component commander is located in the BCD. The A2C2 representatives work within the operations and plans division of the BCD.

Plans Division

B-5. The joint air operations center (JAOC) plans division has a BCD A2C2 representative. This representative needs information to interface in the Theater Air-Ground System airspace control center on all requests for control measures and restrictions. The appropriate corps A2C2 elements may provide this information:

- Forward line of own troops (FLOT) location and fire support coordination line (FSCL) locations.
- Friendly surface-to-air missile location and associated coverage.
- Air defense (AD) weapons control status.
- Significant planned indirect fires, particularly fires forward of the FSCL.
- Planned unmanned aerial vehicle (UAV) operations and launch sites.
- A2C2 priorities.
- Air tasking order (ATO) and airspace control order (ACO).
- Disposition of Army airfields and principal landing sites.

B-6. The BCD A2C2 representative, in coordination with the JAOC combat plans division, approves or disapproves notification for Army airspace requests, orders, and recommendations. These notifications are to the appropriate requesting corps A2C2 element (G3), corps fire support element (FSE), or control and reporting center (CRC). Additionally, the BCD A2C2 representative provides the current joint forces air component commander's airspace utilization priorities, control measures or restrictions, and all other elements of information necessary for the corps to maintain a complete A2C2 picture.

Operations Division

B-7. To interface with the JAOC combat operations division, the BCD A2C2 representative in the JAOC operations division needs information on—

- Requests for immediate changes to the current A2C2 plan (as established in the control plan, ATO, or ACO).
- Changes to the air defense artillery (ADA) high-to-medium-altitude air defense (HIMAD) locations.
- Changes to the weapons control status.

- Changes to FLOT and boundaries.
- Additions or changes to the significant planned indirect fires.
- Procedural changes to identification, friend or foe (IFF) or selective identification feature (SIF).
- ATO and ACO.
- UAV missions above the coordinating altitude.
- Locations of instrumented airfields.
- Movement of Army airfields.
- Reduction or suspension of Army air traffic management services.

B-8. Table B-2 depicts BCD vertical information requirements.

Table B-2. BCD Vertical Information Networking

Information Require	ed	Received From	Action Officer	Action/Output
A2C2 Annex)		Corps A2C2 Element Corps G3	BCD A2C2 Element	
	Requests	Corps A2C2 Element	BCD A2C2 Element	C, A
A2C2 Control Measures and Restrictions	Approvals		BCD A2C2 Element	ADA Brigade
FLOT		Corps A2C2 Element Corps G3	BCD A2C2 Element	P, C, D
A2C2 Priorities	Army	Corps A2C2 Element	BCD A2C2 Element	P, C, D JAOC Combat Ops
A202 Priorities	Air Forces	Combat Ops	BCD A2C2 Element	P, C, D Corps A2C2 Element
ATO and ACO		JAOC Combat Ops	BCD A2C2 Element	P, C
ATO Issuing Times		Corps A2C2 Element	BCD A2C2 Element	P, C, D
IFF and SIF Procedures		CRC	BCD A2C2 Element	JAOC and A2C2
Unscheduled, Large Formation Missions		JAOC Combat Ops	BCD A2C2 Element	ADA Brigade
NBC Contaminated Areas		Corps A2C2 Element	BCD A2C2 Element	P, C, D JAOC Combat Ops
Friendly ECM Activities (Affecting Avionics)		Corps A2C2 Element G2	BCD A2C2 Element	and Plans
SEMA and UAVs (Above Coordinating Altitude)		Corps A2C2 Element G2 Corps FSE	BCD A2C2 Element	P, C, D JAOC Combat Ops and Plans
ADA Locations and Status (HIMAD)		Corps A2C2 Element ADA BDE	BCD A2C2 Element	P, C
ADA Weapons Control Status	Requests	Corps A2C2 Element G3	BCD A2C2 Element	P, C, A
	Approvals		BCD A2C2 Element	D Corps A2C2 Element
Army ADA Priorities		Corps A2C2 Element G3	BCD A2C2 Element	C, D JAOC Combat Ops

Table B-2. BCD Vertical Information Networking (continued)

Information Requ	ired	Received From	Action Officer	Action/Output	
AD Warnings		CRC Corps A2C2 Element	BCD A2C2 Element	C, D Corps A2C2 Element ADA BDE JAOC Defensive Duty Officer	
ADA Weapon Engagement Zones and Weapons Coverage		CRC JAOC Plans ADA Brigade	BCD A2C2 Element	P, C, D Corps A2C2 Element	
Significant Planned Indirect Fires		Corps FSE Corps A2C2 Element	BCD A2C2 Element	P, C	
Fire Support Coordinating Measures		Corps FSE Corps A2C2 Element	BCD A2C2 Element	С	
	Army Articles	Corps A2C2 Element Corps AVN Units	BCD A2C2 Element	P, C, D JAOC	
Locations and Status	NAVAIDs	Corps A2C2 Element ATS Group and BN	BCD A2C2 Element	P, C, D JAOC	
	AIC	Corps A2C2 Element ATS Group and BN	BCD A2C2 Element	P, C, D JAOC	
SAAFRs		Corps A2C2 Element	BCD A2C2 Element	P, C, A (if above coordinating altitude	
A–Approval ATS–air traffic service	C–Coordination		Ops-operations P-Planning		
AVN-aviation ECM-electronic countermeasures SAAFR-standard Army aircraft flight route BDE-brigade NAVAID-navigational aid SEMA-special electronic mission aircraft BN-battalion NBC-nuclear, biological, and chemical *Action/output assumes each A2C2 element section passes information it obtains to its parent unit.					

CORPS A2C2 ELEMENT

B-9. The corps A2C2 element has staff responsibility for A2C2 in the corps area. The corps A2C2 element staff function requires information provided from the sources listed in Table B-3. The staff elements using this information are shown by duty position.

Table B-3. Corps A2C2 Element Lateral Information Networking

Information Items	G3 Air	Corps Aviation Officer	Corps ADA Liaison Officer	Air Traffic Service Liaison Officer	Fire Support Coordinator	Air Liaison Officer
OPORD or OPLAN (Includes A2C2 Annex)	Х	Х	Х	Х	X	Х
ATO and ACO	Х	Х	Х	X	Х	
Airspace Control Issuing Times	Χ	Х	X	X	Х	Х
Airspace User Priorities	X	Х	Х	X	Х	
A2C2 Restrictions and Control Measures (Current and Requested)	Х	Х	Х	Х	Х	Х
Army AD Priorities	Χ	Х	Χ			
AD Warnings		X	Х	X	X	Χ
AD Weapons Control Status (Current and Requested)	Х	Х	Х	X		Х

Table B-3. Corps A2C2 Element Lateral Information Networking (continued)

Information Items	G3 Air	Corps Aviation Officer	Corps ADA Liaison Officer	Air Traffic Service Liaison Officer	Fire Support Coordinator	Air Liaison Officer
Friendly ADA Locations and Coverage	X	Х	Х	Х		Х
ADA Weapon Engagement Zones		Х	Х	Х		
FARPs		Х		Х		Χ
Location and Status of Airfields (Includes FARPs)	Х	х		Х		
Field Artillery Locations	Х	Х		Х	Х	Х
Fire Support Coordinating Measures	Х	Х		Х	Х	
Significant Planned and Ongoing Fires (Assumes No Fires in Rear Areas)	Х	х		х	Х	
Army Aviation Airspace Requirements (Includes SEMA)	X	X	Х			
Army Aviation Unit Locations (Company and Larger)	X	Х		Х		
Aviation Battle Positions		X	X		Χ	Χ
Massed Enemy Aircraft Locations			Х			
IFF and SIF Procedures		X	X	X		
SAAFRs		X	Х	Х	Х	
UAV Flight Paths and Routes		Х		Х	Х	
UAV Launch Sites		X		Х	Х	
Flight Obstructions		Х		Х		
Sortie Allocation	Х				Х	
FLOT		Х	Х	Х	Х	
Positions of Instrument Landing Systems		Х		Х		
Location and Status of NAVAIDs		Х		Х		
Intelligence Summaries	X	X	X		X	Х
Air Support Requests and Requirements (Includes SEMA and UAV)		Х	Х	x	X	
Air Support Requests and Requirements (Includes Air Force Only)					Х	
NBC Contaminated Areas		Х		Х		
Unscheduled, Large Formation Missions				X		
Airborne Tactical Formations		Х		Х		
Friendly ECM Activities		X		X		
Location of AIC				Х		Х
NBC Reports		Х		X	Х	
Weather Reports	Х	Х		Х		Х
ECM-electronic countermeasures FARP-forward arming and refueling poi NAVAID-navigational aid	nt SAA	C—nuclear, bio AFR–standard MA–special ele	Army aircraft	flight route		

B-8

B-10. Table B-4 depicts corps A2C2 element information requirements:

- Where information from outside the corps A2C2 element originates.
- Who the primary corps A2C2 element action officer is.
- Where the information is sent when going outside the corps A2C2 element.
- What the information is used for.

Table B-4. Corps A2C2 Element Vertical Information Networking

Information Req	uired	Received From	Action Officer	Action/Output
OPORD or OPLAN	Corps	G3	G3 Air	P, C, D BCD
(Includes A2C2 Annex)	Division	G3	G3 Air	P, C, A
A2C2 Control Measures	Requests	Corps G3, DIV A2C2 Element	G3 Air	P, C, A, D BCD
and Restrictions	Approvals	BCD A2C2 Element	G3 Air	P, C, D DIV A2C2 Element
FLOT		G3	G3 Air	P, D BCD
A2C2 Priorities	Army	G3	G3 Air	P, C, D BCD DIV A2C2 Element
	Air Forces	BCD A2C2 Element	G3 Air	P, C, D DIV A2C2 Element
ATO and ACO		BCD ASOC	G3 Air	P, C DIV A2C2 Element
ATO Issuing Times		BCD	G3 Air	P, C, D
IFF and SIF Procedures		BCD A2C2 element	G3 Air	P, D DIV A2C2 Element
Unscheduled, Large Formation Missions		BCD ASOC	G3 Air	D DIV A2C2 Element
NBC Contaminated Areas		Corps NBC Element	G3 Air	P, C, D DIV A2C2 Element All A2C2 Element Sections
	Army Aviation Attack	G3 Corps AVN Units DIV A2C2 Element	AVN LNO	P, C, D DIV A2C2 Element
Air Support Requirements	Airlift	G4/G3 Corps AVN Units DIV A2C2 Element	AVN LNO	P, C, D DIV A2C2 Element
and Requests	SEMA	G2/G3 Corps AVN Units DIV A2C2 Element	AVN LNO	P, C, D DIV A2C2 Element
	Air Forces CAS	G3	G3 Air	P, C
	Recon	G2/G3	G3 Air	P, C
	Airlift	G4/G3	G3 Air	P, C
ADA Locations and Coverage		Corps ADA Units DIV A2C2 Element	ADA LNO	P, C, D BCD A2C2 Element
ADA Weapons Control	Requests	G3 DIV A2C2 Element	ADA LNO	P, C, D BCD A2C2 Element
Status	Approvals and Modifications	Corps A2C2 Element	ADA LNO	P, D DIV A2C2 Element

Table B-4. Corps A2C2 Element Vertical Information Networking (continued)

Information Requir	ed .	Received From	Action Officer	Action/Output	
Army ADA Priorities		G3	ADA LNO	P, D DIV A2C2 Element	
AD Warnings		BCD Subordinate Units DIV A2C2 Element	ADA LNO	C, D BCD DIV A2C2 Element	
ADA Weapon Engagement Zones and Weapons Coverage		BCD ATO	ADA LNO	Р	
Significant Planned and Ongoing Indirect Fires		Corps Arty	FSCOORD	P, C	
Fire Support Coordinating Measures		Corps FSE	FSCOORD	P, C, D DIV A2C2 Element BCD	
Field Artillery Locations		Corps Arty	FSCOORD	P, C , D DIV A2C2 Element	
UAV Launch Sites		DIV A2C2 Element	FSCOORD	P, C, D DIV A2C2 Element	
UAV Flight Routes		DIV A2C2 Element	G3 Air	P, C, A, D DIV A2C2 Element UAV Units	
SAAFRs		DIV A2C2 Element Corps AVN	G3 Air	P, C, A, D DIV A2C2 Element BCD (if above coordinating altitude)	
Army AVN Unit Locations		Corps AVN Units G3	AVN LNO	P, C, D DIV A2C2 Element	
Airborne Tactical Formations		Corps AVN Units G3	AVN LNO	С	
	Army Articles	Corps AVN Units G3 DIV A2C2 Element	AVN LNO G3 Air	P, C, D DIV A2C2 Element BCD	
	FARPs	Corps AVN DIV A2C2 Element	AVN LNO G3 Air	P, C, D DIV A2C2 Element	
Locations and Status	NAVAIDs	ATS BN/CO G3	ATS LNO	P, C, D DIV A2C2 Element BCD	
	AIC	ATS BN/CO	ATS LNO	P, C, D DIV A2C2 Element BCD	
Flight Obstructions		ATS BN/CO Corps AVN Units DIV A2C2 Element	ATS LNO	P, C, D	
Intelligence Summaries		G2	G3 Air	P, C	
Friendly ECM Activities		G2	G3 Air	P, C	
Massed Enemy Aircraft		G2	G3 Air	P, C, D	
A-Approval ASOC-air support operations center Arty-artillery AVN-aviation BN-battalion C-Coordination CAS-close air support ADA Offits NBC-nuclear, biological, and chemical P-Planning Recon-reconnaissance SAAFR-standard Army aircraft flight route SEMA-special electronic mission aircraft SEMA-special electronic mission aircraft NAVAID-navigational aid					
AVN–aviation BN–battalion C–Coordination	ECM-electroni FARP-forward FSCOORD-fire NAVAID-navig	I arming and refueling point e support coordinator gational aid	SAAFR-standard A SEMA-special elect	rmy a	

DIVISION A2C2 ELEMENT

B-11. The division A2C2 element has staff responsibility for A2C2 in the division area, requiring information provided from the sources listed in Table B-5. The staff elements using this information are shown by duty position.

Table B-5. Division A2C2 Element Lateral Information Networking

Information Items	G3 Air	Aviation Officer	ADA Liaison Officer	Air Traffic Service Liaison Officer	Fire Support Coordinator	Air Liaison Officer
OPORD or OPLAN (Includes A2C2 Annex)	Х	Х	Х	Х	Х	Х
ATO And ACO	Х	Х			X	
Airspace Control Issuing Times	Х	Х	Χ	Х	Х	Х
Airspace User Priorities	Х	Х	Х	Х	Х	
A2C2 Restrictions and Control	Х	Х	Х	Х	Х	
Measures (Current and Requested)	^	Α	X	X	^	
Army AD Priorities	Χ		Χ			
AD Warnings	X	Х	Χ	Х	X	Χ
AD Weapons Control Status (Current and Requested)	Х	Х	Х	х		Х
Friendly ADA Locations and Coverages	Х	Х	Х	Х		Χ
ADA Weapon Engagement Zones	Х			Х		Х
FARPs		Х	Χ	Х		Х
Location and Status of Airfields (Includes FARPs)	Х	Х				
Field Artillery Locations	Χ			Х	X	Х
Fire Support Coordinating Measures	Х	Х		Х	Х	Х
Significant Planned and Ongoing Fires (Assumes No Fires in Rear Areas)	Х	Х		Х	Х	Х
Army Aviation Airspace Requirements (Includes SEMA)	Х	Х	Χ			
Army Aviation Unit Locations (Company and Larger)	Х	Х		Х		Х
Aviation Battle Positions	Χ					
Massed Enemy Aircraft Locations	Χ					
IFF and SIF Procedures		Х	Χ	Х		Χ
SAAFRs	Χ	X	Χ	Х	X	Χ
UAV Flight Paths and Routes		Х		Х	X	
UAV Launch Sites		X		Х	X	
Flight Obstructions		Х		X		
Sortie Allocation	Χ				X	Χ
FLOT	Χ	Х	Χ	X	X	Χ
Positions of Instrument Landing Systems		Х				
Locations and Status of NAVAIDs		Х		Х		
Intelligence Summaries	Х					
Air Support Requests and Requirements (Includes SEMA and UAV)	Х	Х			Х	

Table B-5. Division A2C2 Element Lateral Information Networking (continued)

Information Items	G3 Air	Aviation Officer	ADA Liaison Officer	Air Traffic Service Liaison Officer	Fire Support Coordinator	Air Liaison Officer
Air Support Requests and Requirements (Includes Air Force Only)	Х			×		Х
NBC Contaminated Areas	X	X		X		
Unscheduled, Large Formation Missions	Х					
Airborne Tactical Formations		Х		Х		
Friendly ECM Activities		Х		Х		
Location of AIC Logistic Resupply Requests	X X					
ECM-electronic countermeasures FARP-forward arming and refueling point NAVAID-navigational aid	NBC–nuclear, biological, and chemical SAAFR–standard Army aircraft flight route SEMA–special electronic mission aircraft					

B-12. Table B-6 depicts division A2C2 element information requirements:

- Where the information is transmitted when going outside the division A2C2 element.
- Where information from outside the division A2C2 element originates.
- What the information is used for.
- Who the primary division A2C2 element action officer is.

Table B-6. Division A2C2 Element Vertical Information Networking

Information Requi	red	Received From	Action Officer	Action/Output
	Corps	G3	G3 Air	P, C
OPORD or OPLAN (Includes A2C2 Annex)	Division	G3	G3 Air	P, C, D Corps A2C2 Element
	Brigade	G3	G3 Air	P, C, A
	Requests	G3 BDE S3	G3 Air	P, C, A, D Corps A2C2 Element
A2C2 Control Measures and Restrictions	Approvals	Corps A2C2 Element	G3 Air	P, C, D BDE S3 Air
	Directed (current)	Corps A2C2 Element	G3 Air	P, C, D BDE S3 Air
FLOT		G3	G3 Air	P, D Corps A2C2 Element
A2C2 Priorities	Army	Corps A2C2 Annex G3	G3 Air	P, C, D Corps A2C2 Element BDE S3 Air
	Air Forces	Corps A2C2 Annex	G3 Air	P, C
Sortie Allocation		ASOC G3 Air	G3 Air	P, C, D BDE S3 Air
IFF and SIF Procedures		Corps A2C2 Element	G3 Air	P, D
Unscheduled, Large Formation Missions		Corps A2C2 Element G3		C, D
NBC Contaminated Areas		Corps A2C2 Element DIV NBC Element	G3 Air	P, C, D BDE S3 Air

Table B-6. Division A2C2 Element Vertical Information Networking (continued)

Information Red	uired	Received From	Action Officer	Action/Output
	Army Aviation Attack	G3 DIV AVN Units BDE S3 Air	AVN LNO	P, C, D S3 Air
	Airlift	G4/G3 DIV AVN Units BDE S3 Air	AVN LNO	P, C, D S3 Air
Air Support Requirements and Requests	SEMA	G2/G3 DIV AVN Units BDE S3 Air	AVN LNO	P, C, D S3 Air
	Air Forces CAS	G3 S3 Air	G3 Air	P, C, D Corps A2C2 Element
	Recon	G3/G2	G3 Air	P, C, D Corps A2C2 Element
	Airlift	G4/G3	G3 Air	C, D Corps A2C2 Element
ADA Locations and Coverage		DIV ADA Corps ADA Corps A2C2 Element	ADA LNO	P, C Division Aviation Brigade
ADA Weapons Control Status	Requests	G3 BDE S3 S3 Air	ADA LNO	P, C, D Corps A2C2 Element
Status	Approvals and Modifications	Corps A2C2 Element		P, D BDE S3 Air
Army ADA Priorities		G3 Corps A2C2 Element	ADA LNO	P, C, D S3 Air
AD Warnings		Corps A2C2 Element Subordinate Units	ADA LNO	C, D Corps A2C2 Element S3 Air
Significant Planned and Ongoing Indirect Fires		DIV Arty	FSCOORD	P, C, D DIV A2C2 Element
Fire Support Coordinating Measures		Corps A2C2 Element DIV Arty	FSCOORD	P, C, D Corps A2C2 Element BDE FSO
Field Artillery Locations		DIV Arty	FSCOORD	P, C, D Corps A2C2 Element
UAV Launch Sites		UAV Units	FSCOORD	P, C, D Corps A2C2 Element
UAV Flight Routes		N/A	G3 Air	P, C, D Corps A2C2 Element
SAAFRs		DIV AVN	G3 Air	P, C, A, D Corps A2C2 Element S3 Air
Army AVN Unit Locations		DIV AVN Units Corps A2C2 Element	AVN LNO	P, C, D Corps A2C2 Element
Airborne Tactical Formations		DIV AVN Units Corps A2C2 Element S3 Air	AVN LNO	P, C, D Corps A2C2 Element S3 Air
AVN Battle Positions		DIV AVN Units Corps A2C2 Element BDE S3	AVN LNO	P, C, D Corps A2C2 Element

Table B-6. Division A2C2 Element Vertical Information Networking (continued)

Information Red	juired	Received From	Action Officer	Action/Output
	Army Airfields	Corps A2C2 Element G3 DIV AVN Units	AVN LNO G3 Air	P, C, D Corps A2C2 Element
Locations and Status	FARPs	DIV AVN Units S3 Air	AVN LNO G3 Air	P, C, D Corps A2C2 Element
	AIC	ATS CO/Platoon Corps A2C2 Element	ATS LNO	P, C, D Corps A2C2 Element
Flight Obstructions		DIV AVN Units S3 Air ATS CO/Platoon	ATS LNO	P, C, D Corps A2C2 Element
Intelligence Summaries		G2	G3 Air	P, C, D S3 Air Corps A2C2 Element
Friendly ECM Activities		G2	G3 Air	P, C, D Corps A2C2 Element S3 Air
Massed Enemy Aircraft Formations		G2 Corps A2C2 Element ADA Units	G3 Air	P, C, D Corps A2C2 Element S3 Air
A-Approval Arty-artillery AVN-aviation BDE-brigade C-Coordination CAS-close air support *Action/output assumes each A	FARP-forwar FSCOORD-fi	n nic countermeasures d arming and refueling po re support coordinator	P–Planning Recon–reconnais int SAAFR–standard SEMA–special ele	ological, and chemical sance Army aircraft flight route ectronic mission aircraft

BRIGADE A2C2 ELEMENT

B-13. The brigade staff performs A2C2 at brigade. Since no formalized A2C2 element exists at brigade, the brigade staff extracts information from various sources to perform A2C2. The brigade commander may form a brigade A2C2 element from the ADA liaison officer (LNO), the brigade fire support officer (FSO), the air liaison officer (ALO), and the Army aviation LNO. When the Army aviation LNO is not present, the S3 air assumes his duties. When present, the Army aviation LNO performs these functions to coordinate with the brigade staff:

- Reviews the airspace utilization and Army aviation plans and graphics from the division operation order (OPORD) or operation plan (OPLAN); advises the brigade commander and staff on actions required at the brigade to follow or to implement the required A2C2 measures.
- Receives the division aviation battalion OPORD or OPLAN; advises the brigade commander and staff on Army aviation support in the brigade area.
- Receives the brigade OPLAN or OPORD; advises on Army aviation annex when necessary; assists in planning operations requiring Army aviation support.

B-14. A2C2 priorities are established and coordination is accomplished on the brigade staff as—

• Division A2C2 priorities are received from the division A2C2 element for implementing at the brigade.

- Significant planned indirect fires are received from the FSO and sent to aviation unit operations. The staff sends significant indirect fires that are immediate to the airspace information center (AIC) either directly or via the division A2C2 element.
- Requests for brigade A2C2 priorities are received from the brigade S3 air and forwarded to the division A2C2 element for approval.
- Field artillery locations are received from the FSO and sent to aviation unit operations.
- Fire support coordinating measures are received from the FSO and sent to aviation unit operations.
- The ADA weapons control status is received from the ADA LNO and sent to aviation unit operations.
- A2C2 restrictions received from the division A2C2 element are passed to the FSO, S3 air, ALO, and ADA LNO for fire support planning. A2C2 restrictions originating at brigade to facilitate fire support planning are sent to aviation unit operations and the division A2C2 element.
- FLOT information is received from the brigade S3 and sent to aviation unit operations.
- AD warnings are received from the ADA LNO and sent to aviation unit operations.
- Requests for Air Force air support are received from the S3 air. Once requests are approved and scheduled, the staff sends information to aviation unit operations.
- Requests for Army aviation support are received from the S3 air and sent to the division A2C2 element and supporting aviation unit.

B-15. The brigade staff function requires information provided from the sources listed in Table B-7. The staff elements using this information are shown by duty position.

Table B-7. Brigade Staff Lateral Information Networking

Information Items	ADA Liaison Officer	Army Aviation Officer	Fire Support Officer	Air Liaison Officer	S3 Air
OPORD or OPLAN (Includes A2C2 Annex)	Х	Х	X	X	Х
ATO and ACO	Х	X	Х	Χ	X
Airspace Control Issuing Times				Χ	Х
Airspace User Priorities					X
A2C2 Restrictions and Control Measures (Current and Requested)	Х	Х		Х	Χ
Army AD Priorities	Х			Х	X
AD Warnings	Х			Х	Х
AD Weapons Control Status (Current and Requested)	Х	Х		Х	Х
Friendly ADA Locations and Coverage	Х	Х		Х	X
ADA Weapon Engagement Zones	Х			Х	Х
FARPs		Х			Χ
Locations and Status of Airfields (Includes FARPs)	Х	Х		Х	Х
Field Artillery Locations		Х	Х	X	Х

Table B-7. Brigade Staff Lateral Information Networking (continued)

Information Items	ADA Liaison Officer	Army Aviation Officer	Fire Support Officer	Air Liaison Officer	S3 Air
Fire Support Coordinating Measures	Х	Х	X	Х	Х
Significant Planned and Ongoing Fires (Assumes No Fires in Rear Areas)		Х	Х	Х	Х
Army Aviation Airspace Requirements (Includes SEMA)		Х		Х	
Army Aviation Unit Locations (Company and Larger)		Х			Х
Aviation Battle Positions		X	Х		Χ
Massed Enemy Aircraft Locations					Χ
IFF and SIF Procedures	Х	Х		Х	
SAAFRs	Х	Х	X		
UAV Flight Paths and Routes		Х	Х		
UAV Launch Sites		Х	Х		
Flight Obstructions		Х			Χ
Sortie Allocation					Χ
FLOT	Х	Х	X	Х	Х
Positions of Instrument Landing Systems		Х		X	
Locations and Status of NAVAIDs		Х		Х	
Intelligence Summaries					Χ
Air Support Requests and Requirements (Includes SEMA and UAV)	Х	Х	Х	Х	Х
Air Support Requests and Requirements (Includes Air Force Only)	Х		Х		Х
NBC Contaminated Areas		Х			Х
Unscheduled, Large Formation Missions					Х
Airborne Tactical Formations	Х				Х
Friendly ECM Activities		Х			Х
Location of AIC		Х		Х	
FARP-forward arming and refueling point SAAFR-star	ndard Army a	and chemica aircraft flight r mission airc	oute		

B-16. Table B-8 depicts the brigade staff information requirements:

- Where information from outside the brigade originates.
- Who the primary brigade action officer is.
- Where the information is transmitted when going outside the brigade staff.
- What the information is used for.

Table B-8. Brigade Staff Vertical Information Networking

Information Required		Received From	Action Officer	Action/Output
	Division	G3	S3 Air	P, C
OPORD or OPLAN (Includes A2C2 Annex)	Brigade	S3	S3 Air	P, C, D BN S3 DIV G3
	Battalion	S3	S3 Air	P, C, A

Table B-8. Brigade Staff Vertical Information Networking (continued)

Information Requi	red	Received From	Action Officer	Action/Output
	Requests	S3 BN S3	S3 Air	P, C, A, D DIV A2C2 Element
A2C2 Control Measures and Restrictions	Approvals	DIV A2C2 Element	S3 Air	P, C, D BN S3
	Directed (Current)	DIV A2C2 Element	S3 Air	P, C, D BN S3
FLOT		S3	S3 Air	C, D DIV A2C2 Element
A2C2 Priorities	Army	S3 DIV A2C2 Annex	S3 Air	P, C, D BN S3
ALOLI HORIUG	Air Forces (if affects BDE)	DIV A2C2 Annex	S3 Air	Р
Sortie Allocation		G3 Air	S3 Air	P, C, D BN S3 Air
Unscheduled, Large Formation Missions		DIV A2C2 Element G3 Air	S3 Air	C, D
NBC Contaminated Areas		DIV A2C2 Element BDE NBC Officer	S3 Air	P, C, D DIV A2C2 Element
	Army Aviation Attack	S3	S3 Air/AVN LNO	P, C, D BN S3 Air DIV A2C2 Element
	Airlift	S3/S4	S3 Air/AVN LNO	P, C, D DIV A2C2 Element
Air Support Requirements and	SEMA	S2/S3	S3 Air	P, C, D DIV A2C2 Element
Requests	Air Forces CAS	S3	S3 Air ALO	P, C, D BN S3 Air DIV A2C2 Element
	Recon	S3/S2	S3 Air ALO	P, C, D BN S3 Air DIV A2C2 Element
	Airlift	S3/S4	S3 Air ALO	P, C, D DIV A2C2 Element
Airspace Control Issuing Times		DIV A2C2 Element	S3 Air	Р
ADA Locations and Coverage		ADA BN/Battery	ADA LNO	P, C
ADA Weapons Control Status	Requests	S3	ADA LNO	C, D DIV A2C2 Element
Troupeno sonitor status	Approvals and Modifications	DIV A2C2 Element	ADA LNO	P, D BN S3 Air
AD Warnings		DIV A2C2 Element Subordinate Units	ADA LNO	C, D DIV A2C2 Element BN S3 Air
Significant Planned and Ongoing Indirect Fires		DIV Arty DS Arty	FSO	P, C, D DIV A2C2 Element
Fire Support Coordinating Measures		DIV Arty DS Arty	FSO	P, C, D S3 Air
Field Artillery Locations		DIV Arty DS Arty	FSO	P, C , D DIV A2C2 Element

Table B-8. Brigade Staff Vertical Information Networking (continued)

Information Requi	red	Received From	Action Officer	Action/Output
UAV Launch Sites		UAV Units	FSO	P, C, D DIV A2C2 Element
UAV Flight Routes		DIV A2C2 Element	S3 Air	P, C
Army AVN Unit Locations		DIV A2C2 Element AVN Units	S3 Air AVN LNO	P, C, D DIV A2C2 Element
Airborne Tactical Formations		AVN Units S3	S3 Air AVN LNO	С
FARPs		DIV A2C2 Element AVN Unit	S3 Air AVN LNO	P, C, D DIV A2C2 Element
AVN Battle Positions		AVN Unit	S3 Air AVN LNO	P, C, D DIV A2C2 Element
Intelligence Summaries		S2	S3 Air	P, C
Friendly ECM Activities		S2 DIV A2C2 Element	S3 Air	P, C
Massed Enemy Aircraft Formations		DIV A2C2 Element ADA Units	S3 Air	С
Arty-artillery D- AVN-aviation DI BDE-brigade DS BN-battalion E0	AS-close air support -Distribution V-division S-direct support CM-electronic counte ARP-forward armin	F F Sermeasures and refueling point	•	

BATTALION A2C2 ELEMENT

B-17. As with the brigade staff, no formal A2C2 element exists at battalion. The commander is the airspace manager and his staff performs the coordination. The information requirements by duty position are the same from brigade to battalion with one exception. The S3 or S3 air generates the ADA and aviation information if either the ADA or aviation LNO is not present.

B-18. Table B-9 depicts the battalion staff information requirements:

- Where information from outside the battalion originates.
- Who the primary battalion action officer is.
- Where the information is transmitted when going outside the battalion staff.
- What the information is used for.

Table B-9. Battalion Staff Vertical Information Networking

Information Required		Received From	Action Officer	Action/Output
OPORD or OPLAN (Includes A2C2	Brigade	S3	S3 Air	P, C
Annex)	Battalion	S3	S3 Air	P, C
A2C2 Control Measures and Restrictions	Current	S3 Air	S3 Air	P, C
	Required	N/A	S3 Air	P, C, D BDE S3 Air

Table B-9. Battalion Staff Vertical Information Networking (continued)

Information Required	I	Received From	Action Officer	Action/Output
FLOT		S3	S3 Air	P, C
A2C2 Priorities (Army Only)		S3 BDE S3 Air	S3 Air	P, C
AD Warnings		BDE S3 Air	S3 Air	С
Sortie Allocation		BDE S3 Air	S3 Air	Р
	Army Aviation Attack	Subordinate Units S3	S3 Air	C, D BDE S3 Air
Air Support Requirements and Requests	Airlift	S4/S3	S3 Air	C, D BDE S3 Air
	SEMA	S2/S3	S3 Air	C, D BDE S3 Air
	Air Forces CAS	S3	S3 Air ALO	C, D BDE S3 Air
	Recon	S2/S3	S3 Air ALO	C, D BDE S3 Air
	Airlift	S4/S3	S3 Air	C, D BDE S3 Air
Unscheduled, Large Formation Missions		BDE S3 Air	S3 Air	С
ADA Locations		ADA Unit	S3	С
ADA Weapons Control Status		S3	S3	C, D BDE
Significant Planned and Ongoing Indirect Fires		DIV Arty	FSO	C, D BDE S3 Air
Fire Support Coordinating Measures		DIV Arty DS Arty	FSO	С
Field Artillery Locations		DS Arty	FSO	С
Army AVN Locations and Coverage		AVN Units	S3 Air	C, D BDE S3 Air
AVN Battle Positions		AVN Units	S3 Air	C, D BDE S3 Air
A–Approval C–Coordination Arty–artillery CAS–close air suppo AVN–aviation D–Distribution BDE–brigade DIV–division	P–Plannir Recon–re	applicable ng connaissance	MA-special electron	nic mission aircraft

*Action/output assumes each A2C2 element section passes information it obtains to its parent unit.